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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/486,307	02/24/2000	HELMUT KREUZER	1041	6834

7590 08/27/2002

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EXAMINER

PEREZ, GUILLERMO

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 08/27/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/486,307

Applicant(s)

KREUZER, HELMUT

Examiner

Guillermo Perez

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 June 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

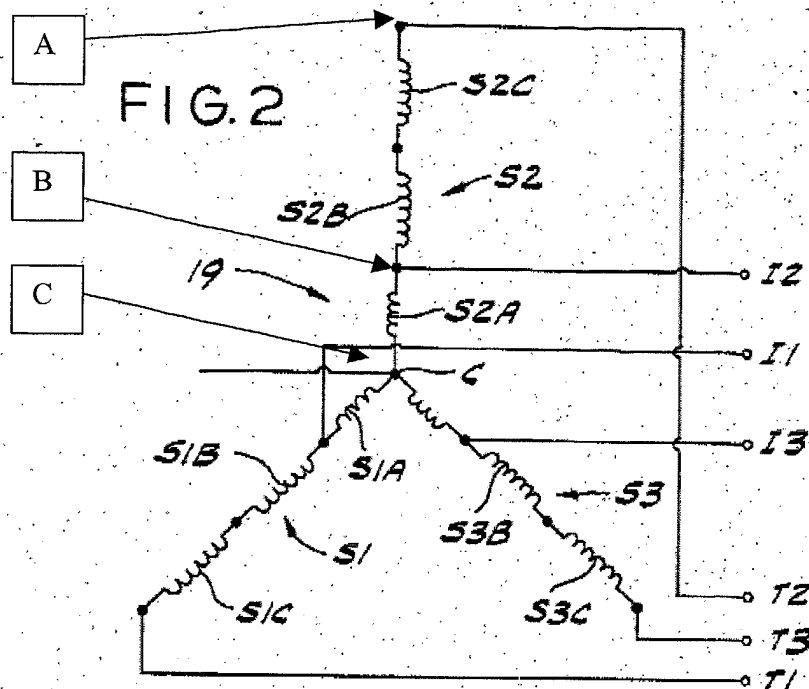
1. Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyd, Jr. (U. S. Pat. No. 4, 528, 485) in view of Ewing et al. (U. S. Pat. No. 5, 625, 241) and further of Uuskoski (U. S. Pat. 5,451,854) in view of Keljik ("Electric Motors and Motor Controls").

Boyd, Jr. discloses a three-phase dynamoelectric machine comprising:
a winding packet (figure 2) that is penetrable by a rotating magnetic field;
a number of winding (S1,S2,S3) of the winding packet being respectively connected together into at least one phase (T1,T2,T3) at which a dynamoelectric voltage is tapped. Boyd, Jr. discloses that the winding is comprised of a number of parallel wound winding wires (S). Boyd, Jr. discloses that out of at least three parallel wound winding wires (S) of a phase, at least two (S2B, S2C) are connected to separate phase terminals (I2) at each of which a partial dynamoelectric voltage is tapped. Boyd, Jr. discloses that the windings constitute a main winding (S2B,S2C) and the windings constitute an auxiliary winding (S2A).

Boyd, Jr. discloses that all the windings are located in a star-shaped configuration and are connected with one another in a center point. Boyd, Jr. discloses

that the main winding (S2B,S2C) and the auxiliary winding (S2A) of the winding packet each having three phases (1,2,3). Boyd, Jr. discloses that the main winding (S2B,S2C) of each phase (1,2,3) having one winding (S2) and the auxiliary winding (S2A) of each phase (1,2,3) having one winding (S2A). Boyd, Jr. discloses that the main windings (S2B,S2C) and the auxiliary windings (S2A) each having two opposite winding ends (A,B,C). Boyd, Jr. discloses that each main winding (S2B,S2C) and each auxiliary winding (S2A) having one of the winding ends (B,C) which faces the star-shaped configuration (C) with which the windings (S1, S2, S3) are connected with one another in the star-shaped configuration (C).

Boyd, Jr. discloses that the main windings (S2B,S2C) and the auxiliary windings (S2A) each having winding ends (A,B) which face away of the star-shaped configuration (C) and each connected with a phase terminal (T2), at winding ends (A,B) which face away of the star-shaped configuration (C) of the windings of the main winding (S2B,S2C) and of the windings of the auxiliary winding (S2A). Boyd, Jr. discloses an input voltage which is separate from one another being fed.



Boyd, Jr. discloses that the windings (figure 2) are constituted by a common conductor bundle. Boyd, Jr. discloses that the auxiliary winding has at least one winding wire.

However, Boyd, Jr. does not disclose that both windings of a phase being connected electrically parallel to one another. Boyd, Jr. does not disclose that the main winding has at least two parallel connected winding wires.

Ewing et al. disclose that both windings of a phase are connected electrically parallel to one another. Ewing et al. disclose that the main winding has at least two parallel connected winding wires (figure 10). The invention of Ewing et al. has the purpose of providing for different connection alternatives of the embodiment.

Uuskoski discloses that the main winding (R12,R13) and the auxiliary winding (R11) being connected electrically parallel to one another (figure 1). Uuskoski's invention has the purpose of reducing the starting current of a dynamoelectric machine.

Keljik disclose that an electric motor can be reversed to be used as an electric generator (page 139).

It would have been obvious at the time the invention was made to modify the dynamoelectric machine of Boyd, Jr. and provide it with the winding configuration of Ewing et al., Uuskoski and Keljik for the purpose of providing for different connection alternatives of the embodiment and reducing or increasing the current amount being passed through the system.

Response to Arguments

Applicant's arguments filed June 19, 2002 have been fully considered but they are not persuasive.

In response to Applicant's remark that Ewing does not disclose primary windings and secondary windings, it must be noted that the Examiner relied on Ewing to show that both windings of a phase can be connected electrically parallel to one another.

In response to Applicant's remark that Boyd does not disclose the windings being connected in parallel, it must be noted that the Examiner relied on Ewing to show that windings in parallel have an equivalent connection pattern in series that have the same output (figure 10). The same rationale is applied to the reference of Uuskoski.

In response to Applicant's remark that the neither the main nor the secondary windings are connected to a joint star point, it must be noted that Boyd discloses the main and the secondary windings being connected to a joint star (C in figure 2).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guillermo Perez whose telephone number is (703) 306-5443. The examiner can normally be reached on Monday through Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308 1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703)


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305 3432 for regular communications and (703) 305 3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 0956.

Guillermo Perez
August 25, 2002


NESTOR RAMIREZ
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